

FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

503.30414V20

SERIAL NO.

09/165379

APPLICANT

KATO, et al.

FILING DATE

January 22, 2001

GROUP

3749



**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PAW	3 6 5 2 4 4 4	2-72	Lester, et al.			
	3 9 8 1 7 9 1	9-76	Rosvold			
	4 2 2 6 8 9 7	10-80	Coleman			
	4 3 1 1 4 2 7	1-82	Coad, et al.			
	4 3 1 3 8 1 5	2-82	Graves, Jr. et al.			
	4 4 4 9 8 8 5	5-84	Hertel, et al.			
	4 4 5 7 6 6 1	7-84	Flint, et al.			
	4 5 3 4 3 1 4	8-85	Ackley			
	4 5 6 3 2 4 0	1-86	Shibata, et al.			
	4 6 3 4 3 3 1	1-87	Hertel			
	4 7 0 5 9 5 1	11-87	Layman, et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
PAW	6 2 8 9 8 8 1	4-87	Japan			X
	6 2 2 0 7 8 6 6	9-87	Japan			X
	1 3 1 9 7 0	2-89	Japan			X
	1 3 1 9 7 1	2-89	Japan			X
	6 3 6 5 8 2	1-89	Japan			X
	1 1 3 5 0 1 5	5-89	Japan			X

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

PAW	R.P.H. Chang, "Multipurpose plasma reactor for materials research and processing", J. Vac. Sci. Technol., Vol. 14, No. 1, Jan./Feb. 1977, pages 278-280.
PAW	Semiconductor Equipment Association of Japan, "Terminological Dictionary of Semiconductor Equipment", front, table, page 183, back, Nov. 20, 1987.
PAW	Semiconductor Equipment Association of Japan, "Semiconductor News", Vol. 4, pp. 38-43, April 10, 1987 (w/ translation).

EXAMINER

J. Wilson

DATE CONSIDERED

8/9/01

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-T449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

503.30414V20

SERIAL NO.

09/765379

APPLICANT  
KATO, et al.

FILING DATE  
January 22, 2001

GROUP 3749

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PW	4 7 1 5 7 6 4	12-87	Hutchinson			
	4 8 5 1 1 0 1	7-89	Hutchinson			
	4 8 3 6 7 3 3	6-89	Hertel, et al.			
	4 8 3 6 9 0 5	6-89	Davis, et al.			
	4 8 9 5 1 0 7	1-90	Yano, et al.			
	4 9 0 2 9 3 4	2-90	Miyamura, et al.			
	4 9 0 3 9 3 7	2-90	Jakuniec, et al.			
	4 9 0 9 6 9 5	3-90	Hurwitt, et al.			
	4 9 1 1 5 9 7	3-90	Maydan, et al.			
	4 9 1 5 5 6 4	4-90	Error, et al.			
✓	4 9 1 7 5 5 6	4-90	Stark, et al.			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
PW	2 6 5 2 5 2	3-90	Japan		X
	6 4 1 2 0 3 7	1-89	Japan		X
	2 6 1 0 6 4	3-90	Japan		X
	1 3 1 0 5 5 3	12-89	Japan		X
	1 2 5 1 7 3 4	10-89	Japan		X
✓	6 2 4 4 5 7 1	2-87	Japan		X

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


EXAMINER

*J. Wilson*

DATE CONSIDERED

8/9/01

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

503.30414V20

SERIAL NO.

09/765379

APPLICANT

KATO, et al.

FILING DATE

January 22, 2001

GROUP

3749

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PAW	5 0 0 7 9 8 1	4-91	Kawasaki, et al.			
	5 2 9 2 3 9 3	3-94	Maydan, et al.			
	5 4 5 2 1 6 6	9-95	Aylwin, et al.			
	5 5 0 4 0 3 3	4-96	Bajor, et al.			
	5 5 0 4 3 4 7	4-96	Jovanovic, et al.			
	5 5 5 6 7 1 4	9-96	Fukuyama, et al.			
	5 6 5 1 8 5 8	7-97	Lin			
	5 6 7 5 4 6 1	10-97	Aylwin, et al.			
	4 3 1 3 7 8 3	2-82	Davies, et al.			
	4 3 1 8 7 6 7	3-82	Hijkata, et al.			
	4 9 6 9 7 9 0	11-90	Petz, et al.			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
6 2 5 0 4 6 3	3-87	Japan			
2 1 0 6 0 3 7	4-90	Japan			
5 7 2 9 5 7 7	2-82	Japan			
6 3 1 5 3 2 7 0	6-88	Japan			x

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


EXAMINER

J. Wilson

DATE CONSIDERED

8/9/01

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

503.30414V20

SERIAL NO.

09/765379

APPLICANT  
KATO, et al.

FILING DATE  
January 22, 2001

GROUP 3749

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PAW	4 9 2 4 8 9 0	5-90	Giles, et al.	134	902	
	4 9 3 6 3 2 9	6-90	Michael, et al.	134	902	
	5 0 1 4 2 1 7	5-91	Savage	364	550	
	5 0 0 7 9 8 1	4-91	Kawasaki, et al.			
	4 1 3 8 3 0 6	2-79	Niwa	156	345	
	4 5 7 6 6 9 8	3-86	Gallagher, et al.	204	192	
	5 0 1 4 2 1 7	5-91	Savage	364	498	
	5 3 5 1 4 1 5	10-94	Brooks, et al.	34	389	
	4 6 4 3 6 2 9	2-87	Takahashi, et al.	414	331	
✓	4 8 2 4 3 0 9	4-89	Kakehi, et al.	414	217	
	4 9 5 1 6 0 1	8-90	Maydan, et al.	414	217X	

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
PAW	2 0 3 8 1 3 3 8	5-90	Europe				
	6 4 1 2 0 3 7	1-89	Japan				
	4 3 0 5 4 9	4-92	Japan				
	8 7 0 7 3 0 9	5-87	PCT Int'l Appl.				
✓	2 9 4 6 4 7	4-90	Japan				
	6 0 2 4 6 6 3 5	12-85	Japan				

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


EXAMINER

P. Wilson

DATE CONSIDERED

8/9/01

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

503.30414V20

SERIAL NO.

09/765379

APPLICANT  
KATO, et al.

FILING DATE  
January 22, 2001

GROUP 3749

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PAW	5 5 0 9 7 7 1	4-96	Hiroki	414	217	
PAW	5 4 6 2 3 9 7	10-95	Iwabuchi	414	222	
PAW	5 6 8 5 6 8 4	11-97	Kato, et al.	414	217	
PAW	4 9 2 3 5 8 4	5-90	Bramhall, Jr., et al.			
PAW	5 4 3 6 8 4 8	7-95	Nishida, et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
PAW	1 2 9 8 1 8 0	12-89	Japan				
PAW	2 0 2 4 6 4 5 3	4-87	Europe				
PAW	2 6 5 2 5 2	3-90	Japan				

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

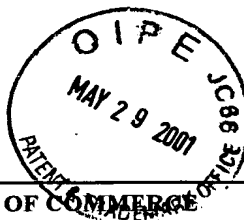

EXAMINER

P. Wilson

DATE CONSIDERED

8/9/01

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet 1 of 1

<b>Form PTO-1449</b>  <b>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)	<b>ATTY. DKT. NO.</b> 503.30414C20	<b>SERIAL NO.</b> 09/765,379
	<b>APPLICANT</b> KATO ET AL.	
	<b>FILING DATE</b> January 22, 2001	<b>GROUP</b> 3749

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Subclass	Abstract	
						Yes	No
PAW	AM	63-133521	06/06/88	Japan		x	
	AN						
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	AU	
	AV	
	AW	
	AX	
	AY	
	AZ	
<b>Examiner</b>	<i>P. Wilson</i>	<b>Date Considered</b> 8/9/01